

**Implementation and Monitoring Report  
for the John Day River Management Plan,  
Two Rivers, John Day and Baker  
Resource Management Plan Amendments**

**2001**



**Prepared by:**

**Prineville District, Bureau of Land Management  
Confederated Tribes of the Warm Springs  
Oregon Parks and Recreation Department  
Oregon Department of Fish and Wildlife**

22 May 2002

## Table of Contents

I. Implementation Activities of the Confederated Tribes of the Warm Springs .....	1
A. Pine Creek Acquisition .....	1
B. Wagner Ranch Acquisition .....	1
C. Oxbow Ranch Acquisition .....	1
D. Forrest Property .....	1
E. Elsewhere in the John Day Basin .....	1
II. Implementation Activities of the Oregon Parks and Recreation Department .....	2
A. State Scenic Waterway Notifications .....	2
B. Cooperative Management Agreement .....	2
C. Survey Assistance .....	2
D. Instream Water Right Lease .....	2
III. Implementation Activities of the Oregon Department of Fish and Wildlife .....	2
A. Riparian and Aquatic Habitat Restoration .....	2
IV. Implementation Activities of the Bureau of Land Management .....	3
A. Vegetation .....	3
1. Riparian and Aquatic Habitat Restoration .....	3
2. Rangeland Restoration .....	3
3. Forestlands .....	3
4. Grazing .....	3
5. Noxious Weed Control .....	4
6. Fire Management .....	4
7. Agricultural Lands .....	4
B. Fish .....	4
C. Wildlife .....	4
D. Native American Trust Responsibilities .....	4
E. Water Quantity and Quality .....	4
F. Paleontological Resources .....	5
G. Cultural Resources .....	5
H. Public Information and Education .....	6
I. Law Enforcement and Emergency Services .....	6
J. Scenery .....	6
K. Recreation Use .....	7
1. Limits of Acceptable Change .....	7
2. Boating Use Levels .....	7
3. Boating Use Allocation .....	7
4. Motorized Boating .....	7
5. Dispersed Recreation .....	8
6. Developed Recreation .....	8
7. Public Access .....	8
8. Commercial Uses .....	9
L. Energy and Mineral Resources .....	9
M. Land Ownership, Classifications, and Use Authorizations .....	9

V. Monitoring Activities of the Bureau of Land Management .....	10
A. Monitoring of Grazing Management Actions .....	10
1. Compliance with authorized use .....	10
2. Incidence of use on woody riparian species .....	10
3. Stubble height .....	10
4. Riparian recovery .....	11
5. Upland vascular vegetation and ground cover .....	11
6. Biological soil crust recovery .....	12
B. Monitoring Recreation Management Actions .....	12
1. Limits of Acceptable Change (physical component) .....	12
2. Limits of Acceptable Change (social component) .....	12
3. Boating use data collection .....	13
C. Monitoring Hydrology .....	13
1. Watershed improvement activity tracking .....	13
2. Water temperature .....	13
3. Surveying monitoring cross sections .....	13
D. Monitoring Agricultural Actions .....	14
1. Implementation of instream conversion .....	14
2. Seeding success .....	14
E. Monitoring Fish and Aquatic Habitat .....	14
1. Anadromous fish spawning .....	14
2. Spawning habitat inventory .....	14
F. Other monitoring .....	15
1. Extent and density of noxious weed infestations .....	15
2. Willow study .....	15
Appendix A: FY 2001 Monitoring of Grazing Allotments .....	16

# **Implementation and Monitoring Report for the John Day River Management Plan, Two Rivers, John Day and Baker Resource Management Plan Amendments**

**2001**

## **I. Implementation Activities of the Confederated Tribes of the Warm Springs**

### **A. Pine Creek Acquisition (Mainstem, 25,230 acres)**

1. Completed integrated resources management plan.
2. Continuing riparian restoration through willow and cottonwood planting.
3. Continuing noxious weed control.
4. Completed Habitat Evaluation Plan and initiated fish habitat improvement projects.
5. Implemented deferred grazing system.
6. Leased water rights to instream use.
7. Providing extensive environmental education program.

### **B. Wagner Ranch Acquisition (Mainstem, 9,253 acres)**

1. Completed game surveys.

### **C. Oxbow Ranch Acquisition (Middle Fork, 1,020 acres)**

1. Completed game surveys.
2. Constructed riparian corridor fencing.

### **D. Forrest Property (Pending Acquisition on the Middle Fork, 4,295 acres)**

### **E. Elsewhere in John Day Basin.**

1. Administered approximately \$4,000,000 in matching funds provided by the Confederated Tribes of the Warm Springs through Bonneville Power Administration for individual watershed enhancement projects within the basin.

## **II. Implementation Activities of the Oregon Parks and Recreation Department**

### **A. State Scenic Waterway Notifications**

1. Received or processed to completion 12 notifications for alteration to the lands within the boundaries of the state scenic waterway, 1 on the Mainstem and 11 on the Middle Fork John Day River.

### **B. Cooperative Management Agreement**

1. Oregon Parks and Recreation Department and Prineville District BLM entered into a Cooperative Management Agreement for implementation of the John Day River Management Plan and John Day River Scenic Waterway program on 3 October 2001.
2. The agreement will expire on 31 December 2005 unless amended to terminate sooner.

### **C. Survey Assistance**

1. The Engineering Division survey unit provided surveying and mapping services to Prineville District BLM for two irrigated public land parcels.

### **D. Instream Water Right Lease**

1. OPRD entered into a two-year lease with the Oregon Water Resources Department to maintain water rights instream for the irrigation water rights appurtenant to J.S. Burres State Park.
2. At the end of the two year period, the rights at J.S. Burres State Park will revert back to OPRD to decide how they should be managed in future. This will provide BLM, which leases the park, an opportunity to consider development options for all or a portion of the rights.

## **III. Implementation Activities of the Oregon Department of Fish and Wildlife**

### **A. Riparian and Aquatic Habitat Restoration**

1. Constructed 1.2 miles of riparian fence on the North Fork John Day River.
2. Inspected and maintained 14.46 miles of riparian fence on the South, Middle and North Forks and Mainstem John Day River.

## **IV. Implementation Activities of the Bureau of Land Management**

### **A. Vegetation**

#### **1. Riparian and Aquatic Habitat Restoration**

- a. Decisions implemented in FY 2001  
This is an ongoing native hardwood propagation / outplanting program that involves 5 National Forest and 3 BLM Districts. Cuttings have been gathered to preserve genetic material in clone banks. This same material is then used for direct outplanting projects. Nurseries and clone banks were maintained during FY01.
- b. Decisions scheduled for implementation in FY 2002  
Nurseries and clone banks will continue to be maintained and approximately six acres of willow and cottonwood stick outplanting is scheduled.
- c. Estimated costs of implementation  
2 people x 5 days x 8 hrs/day x \$40/hr \$3,200

#### **2. Rangeland Restoration**

No program specific activities scheduled for FY 2001 or 2002.

#### **3. Forestlands**

Nothing scheduled for 2001 or 2002.

#### **4. Grazing**

- a. Decisions implemented in FY 2001  
An interdisciplinary team reviewed and adjusted initial design of three Wilderness Study Area livestock exclusion fences.  
The special seasonal limitation to grazing was established. Grazing in pastures with livestock access to riverbanks were limited to periods following peak runoff when the USGS Gauging Station at Service Creek registered river levels above 2000 cfs.
- b. Decisions scheduled for implementation in FY 2002  
Pasture developments. There are approximately 23 miles of fence and 23 spring developments which must be constructed for full implementation of the decision. These developments will have to undergo wilderness 'non-impairment' review, scenery review, cultural and botanical clearances.  
Lease adjustments. There are 122 allotments covered in the plan. Almost all allotments will require at least minor adjustments to their lease. For example, many leases will be adjusted to include the special seasonal limitation to grazing (2000 cfs restriction mentioned above), a restriction of animal class from grazing sheep or goats, and adjustments to dates of the grazing period.
- c. Estimated costs of implementation.  
Full implementation of pasture developments is expected to cost between \$257,700 and \$340,300.  
Lease adjustments are expected to take 20, eight hour days at \$40/hr (\$6,400).

## **5. Noxious Weed Control**

- a. Decisions implemented in FY 2001  
240 acres of weed infested range were treated with herbicide. Three sites received biological control treatments. The Oregon State weed team annual meeting was hosted in the John Day basin. A weed awareness and identification workshop was presented at the Small Landowners Management Seminar in Fossil. A weed management awareness session was given on the John Day River to 10-12 students from the Mount Bachelor Academy.
- b. Decisions scheduled for implementation in FY 2002.  
Herbicide application on 210 acres. Seeding of 150 acres of herbicide treated area. Outreach continued on an opportunity basis.
- c. Estimated costs of implementation.  
Herbicide application costs estimated at \$26,000.  
Seeding costs are estimated at \$9,000.  
Outreach program, 4 days x 8 hours/day x \$40/hr       =\$1,280

## **6. Fire Management**

No program specific activities scheduled for FY 2001 or 2002.

## **7. Agricultural Lands**

- a. Decisions implemented in FY 2001.  
The BLM hired a local farmer and supplied seed for the conversion of a 70 acre agricultural field into perennial grasses and forbs. The field was irrigated in order to assure the success of the seeding.  
Approximately 30 acres of food and cover crop was grown in the Clarno area.
- b. Decisions scheduled for implementation in FY 2002.  
Approximately 60 acres of food and cover crop will be grown.
- c. Estimated costs of implementation.  
The BLM will purchase irrigation pipe and a pump (a one time expense) and three work months to accomplish the work. Cost estimates are \$30,000.

## **B. Fish**

Nothing scheduled for 2001 or 2002.

## **C. Wildlife**

Nothing scheduled for 2001 or 2002.

## **D. Native American Trust Responsibilities**

No trust specific actions scheduled for 2001 or 2002.

## **E. Water Quantity and Quality**

1. Decisions implemented in FY 2001  
The BLM completed two cooperative projects with irrigated private land along the lower main stem John Day River which transferred irrigated pasture into instream flows. The BLM owned small corners of the private ag fields, so the BLM portions were leased instream along with the private lands.

2. Decisions scheduled for implementation in FY 2002  
The BLM has agreed to provide 50 hrs of support work for an Upper South Fork Watershed Assessment in FY 02. Funding from OWEB may support the major effort. In FY 01, OPR helped survey changes in points of diversions which were the result of improved delivery systems. This will expedite the process of leasing more water instream in FY 02. (Bridge Creek Area). Also, portions of the irrigation water from the 70 acre ag field at Clarno which was converted to perennial grasses and forbs in FY 01 will be returned to instream use in FY 02.
3. Estimated costs of implementation.

(50 hrs on Upper SF Assessment @ \$40/hr)	= \$2000
(40 hrs on water rights work @ \$40/hr)	= <u>\$1600</u>
	\$3600

## **F. Paleontological Resources**

1. Decisions implemented in FY 2001.  
Renewed the volunteer agreement with Oregon Museum of Science and Industry (OMSI) in the Clarno area.
2. Decisions scheduled for implementation in FY 2002.  
Renew the volunteer agreement with OMSI.  
Locality management, staff orientation, site visits, outreach, education, collection and recording information.
3. Estimated costs of implementation.  
160 hrs @ \$40/hr = \$6,400

## **G. Cultural Resources**

1. Decisions implemented in FY 2001  
The BLM completed monitoring of 20 sites, inventoried approximately 100 acres, found four new sites and initiated one Archeological Resources Protection Act (ARPA) investigation on the Mainstem John Day River.
2. Decisions scheduled for implementation in FY 2002.  
Work will focus on monitoring and inventory of sites on river segment 2. The four sites discovered in FY 2001 will be recorded. ARPA investigations will continue. The cooperative management agreement with Sherman County for management of the Old Oregon Trail Monument and McDonald Crossing will be renewed.
3. Estimated costs of implementation.  
ARPA investigations will need one surveillance camera (approximately \$8,000 for purchase and maintenance), \$5000 for flight time, and 20, eight hour days at \$40/hr (\$6,400). The coordination and monitoring will take approximately 10, 10 hour days at \$40/hr (\$4,000).



## **H. Public Information and Education**

1. Decisions implemented in FY 2001  
Conducted river and road patrols during boating season to educate boaters in the Leave No Trace program and fire regulations.  
Two information kiosks were installed along the North Fork John Day at Potamus Creek and Dale. Three boater registration boards were installed along the North Fork at Potamus Creek, Dale, and the State Wayside Bridge.  
Two additional seasonal employees were hired for two months each (May through July 4) to register and educate boaters at launch points, primarily Service Creek and Clarno.
2. Decisions scheduled for implementation in FY 2002  
Continue to conduct river and road patrols during boating season.  
Install signing at three boater registration stations on the North Fork. Coordinate with the Malheur Forest to install a fourth station upstream of Highway 395.  
Continue to employ 2 seasonal employees to register boaters during busy season.  
Create new user brochure, containing maps with land ownership and campsite information. The Confederate Tribes of the Warm Springs to head up this project.  
Planning partner meetings on project design to begin this FY. Lower John Day Public Lands Map is currently being revised by State Office - expected completion date is 2003
3. Estimated costs of implementation.

4 boater registration stations @ \$600/station	= \$2,400
Labor to complete boater registration station installation	\$700
2 seasonal employees for 2 months each	\$12,000
River ranger for 6 months	\$24,000

## **I. Law Enforcement and Emergency Services**

1. Decisions implemented in FY 2001  
None
2. Decisions scheduled for implementation in FY 2002  
To improve coordination with state and local agencies, organize a work group comprised of representatives of agencies providing law enforcement and emergency services along the John Day River.  
Seek additional funding to support local agencies for activities on public lands.
3. Estimated costs of implementation

80 hrs x \$40/hr to set up 2 LE meetings	= \$3,200
--	-----------

## **J. Scenery**

1. Decisions implemented in FY 2001  
Amended the VRM classification to VRM I in the Aldrich Mountain, Spring Basin, North Pole Ridge, Thirtymile, and Lower John Day Wilderness Study Areas.  
Amended the VRM classification to VRM III of Segment 7 on the North Fork of the John Day River.
2. Decisions scheduled for implementation in FY 2002  
None
3. Estimated costs of implementation

N/A

## **K. Recreation Use**

### **1. Limits of Acceptable Change (LAC)**

- a. Decisions implemented in FY 2001  
Continued physical monitoring (limited by low water and employee change).  
Re-filled LAC monitoring position and field trained new employee.  
Completed year one of social survey data collection.
- b. Decisions scheduled for implementation in FY 2002  
Continue physical monitoring.  
Complete year two of social survey data collection and begin synthesizing data.
- c. Estimated costs of implementation  
LAC monitoring, \$40/hr x 8 hrs/day x 85 days = \$27,200  
Social survey, \$40/hr x 8 hrs/day x 40 days = \$12,800

### **2. Boating Use Levels**

- a. Decisions implemented in 2001  
Alerted potential boaters via BLM web site and paper info packet to avoid scheduling trips on peak weekends.
- b. Decisions scheduled for FY 2002  
Same as 2001, unless use figures indicate a need to take further action.
- c. Estimated costs of implementation  
None.

### **3. Boating Use Allocation**

- a. Decisions implemented in FY 2001  
None.
- b. Decisions scheduled for implementation in FY 2002  
None.
- c. Estimated costs of implementation  
N/A

### **4. Motorized Boating**

- a. Decisions implemented in FY 2001  
None.
- b. Decisions scheduled for implementation in FY 2002  
Submit Federal Register notices to WO implementing new motorized boating regulations.  
Sign Segments 2 and 3 with new regulations.
- c. Estimated costs of implementation  
Federal Register notice, 40 hrs x \$40/hr = \$1,600  
Posting new regulations at 9 launch points = \$1,500

### **5. Dispersed Recreation**

- a. Decisions implemented in FY 2001  
None

- b. Decisions scheduled for implementation in FY 2002  
Create a map to identify river campsites which can best handle human use (see Public Information and Education - brochure)
- c. Estimated costs of implementation  
(See Public Information and Education - brochure)

## **6. Developed Recreation**

- a. Decisions implemented in FY 2001  
Maintained existing recreation sites.  
Purchased vault toilet for Priest Hole.
- b. Decisions scheduled for implementation in FY 2002  
Continue to maintain existing recreation sites.  
Install a vault toilet at Priest Hole.  
Develop a primitive boat ramp at Lower Burnt Ranch; relocate BLM boundary fence.  
Add additional launch lanes, a pay phone, and provide water for the dump station at Clarno.
- c. Estimated costs of implementation
 

Maintain existing recreation sites	\$25,000
Installation of toilet at Priest Hole	1,000
Burnt Ranch boat ramp and boundary fence	1,000
Improvements at Clarno	10,000

## **7. Public Access**

- a. Decisions implemented in FY 2001  
Graded North Fork and South Fork Roads.  
Purchased culverts to repair and replace damaged culverts on South Fork Road.  
Purchased gate to close the road north of Clarno homestead during the first 10 days of pheasant season.  
Purchased gate to close Burnt Ranch beach to motor vehicle access. Defined parking area for walk in users at existing Burnt Ranch.  
Improved access to Lower Burnt Ranch site.
- b. Decisions scheduled for implementation in FY 2002  
Continue to maintain existing level of public access  
Repair or replace damaged culverts on South Fork Road.  
Install gate and sign seasonal motorized closure north of Clarno homestead.  
Install gate and sign vehicle closure at Burnt Ranch beach.  
Continue to seek a river access point on public land at Twickenham to replace current private access.
- c. Estimated costs of implementation
 

Annual maintenance of South Fork Road	\$8,000
Culvert work on South Fork Road	8,000
Clarno gate installation	1,000
Burnt Ranch gate installation	500
Twickenham land exchange, 160 hrs x \$40/hr	6,400

## **8. Commercial Uses**

- a. Decisions implemented in FY 2001  
Moratorium on new commercial permits and transfers.
- b. Decisions scheduled for implementation in FY 2002  
Increase the minimum use required to maintain a commercial permit to 20 paying client user days every 2 years.  
Increase the requirements for permits and permit transfers to include training in river rescue, Leave No Trace skills, and interpretive techniques.  
Identify private training opportunities that meet new permit requirements.  
Consider offering a BLM training course for cost of expenses.
- c. Estimated costs of implementation  
Research qualifying training courses, 20 hrs x \$40/hr      =\$800

## **L. Energy and Mineral Resources**

Nothing scheduled for FY 2001 or 2002.

## **M. Land Ownership, Classifications, and Use Authorizations**

- 1. Decisions implemented in FY 2001  
Amended the land use authorization of newly acquired lands defined as Sutton Mountain WSA, Pat's Cabin WSA and North Pole Ridge WSA to WSA status.
- 2. Decisions scheduled for implementation in FY 2002  
None.
- 3. Estimated costs of implementation  
N/A

## **V. Monitoring Activities of the Bureau of Land Management**

### **A. Monitoring of Grazing Management Actions**

#### **1. Compliance with authorized use**

- a. Monitoring accomplished in FY 2001  
Compliance monitoring on 46 of the 59 grazing allotments in the Mainstem and South Fork John Day Wild and Scenic Rivers was documented in the Grazing Authorization and Billing System (GABS).
- b. Monitoring results  
Refer to Appendix A for detail of compliance monitoring.
- c. Monitoring program revisions.  
None.
- d. Monitoring scheduled for FY 2002.  
Training of external agency personnel in compliance monitoring protocol and compliance monitoring reporting is scheduled to occur.
- e. Estimated costs of implementation.  
Many of the allotment visits can be coordinated with other monitoring duties and in the case of river travel, coordinated with visits to several allotments. The costs shown are those trips which are dedicated solely to compliance monitoring on a specific allotment.  
$$8 \text{ hrs/allotment visit} \times \$40/\text{hr} = \$320/\text{allotment visit}$$

#### **2. Incidence of use on woody riparian species**

- a. Monitoring accomplished in FY 2001  
Incidence of use monitoring is to be located on the woody species regeneration plots used in the riparian recovery monitoring protocol (see riparian recovery below). Since the riparian recovery monitoring sites were just getting established in late summer 2001, sites had not been selected when livestock were being removed from river pastures in the spring.
- b. Monitoring results  
No results are available for reporting.
- c. Monitoring program revisions.  
None.
- d. Monitoring scheduled for FY 2002.  
Monitoring will be completed on the established riparian recovery monitoring sites.
- e. Estimated costs of implementation  
$$4 \text{ hrs/site} \times \$40/\text{hr} \times 3 \text{ sites} = \$480$$

#### **3. Stubble height**

- a. Monitoring accomplished in FY 2001.  
Six established plots on the South Fork were re-measured this year. New stubble height monitoring on the mainstem is to be located on the greenline used in the riparian recovery monitoring protocol (see riparian recovery below). Since the riparian recovery monitoring sites were just getting established in late summer

- 2001, sites were not monitored for stubble height this year.
- b. Monitoring results.  
No results are available for reporting.
- c. Monitoring program revisions.  
None.
- d. Monitoring scheduled for implementation in FY 2002  
Monitoring will be completed on the established riparian recovery monitoring sites.
- e. Estimated costs of implementation.  
 $4 \text{ hrs/site} \times \$40/\text{hr} \times 120 \text{ sites} = \$19,200$

#### **4. Riparian recovery**

- a. Monitoring accomplished in FY 2001.  
Riparian specialists with the Deschutes National Forest (Greg Riegel and Elizabeth Crowe) were contracted for 5 days to review the riparian monitoring protocol. The team reviewed the riparian site types and proposed monitoring system in tours of the mainstem and South Fork John Day Rivers. Two specialists attended a Monitoring Vegetation Resources in Riparian Areas workshop in Ritzville WA, taught by Alma Winward. A flora of the riparian species found on the John Day River mainstem was developed in an electronic format. Three riparian monitoring sites were established.
- b. Monitoring results.  
No results are available for reporting.
- c. Monitoring program revisions.  
The protocol requires an existing classification system for riparian plant communities, which does not exist yet for the mainstem and South Fork John Day Rivers. Until a classification system for communities is developed, plant communities developed for other river systems will be used where possible or plant communities will be recorded according to dominant species in the understory and overstory. Identified need for riparian score cards to support Winward, 2000 methodology.
- d. Monitoring scheduled for implementation in FY 2002  
Establish a site in each pasture and at least 30 non-use sites. Begin development of plant associations on the Mainstem and South Fork John Day Rivers.
- e. Estimated costs of implementation.  
 $16 \text{ hrs/site} \times \$40/\text{hr} \times 120 \text{ sites} = \$76,800$   
\$120,000 for contracting development of riparian plant associations.

#### **5. Upland vascular vegetation and ground cover**

- a. Monitoring accomplished in FY 2001.  
Maps were prepared which illustrate the arrangement of range sites throughout the Wild and Scenic Rivers. Locations of existing studies were identified and the range sites that would be monitored for WSR purposes were chosen. Areas needing new studies were identified. Twelve established studies which meet the requirements of this protocol were re-measured this year. Three new studies were established.
- b. Monitoring results.

- No results are available for reporting
- c. Monitoring program revisions.  
None.
  - d. Monitoring scheduled for implementation in FY 2002  
Establish a site in those pastures which do not already have monitoring on an appropriate range site and at least 30 non-use sites.
  - e. Estimated costs of implementation.  
 $10 \text{ hrs/site} \times \$40/\text{hr} \times 80 \text{ sites} = \$32,000$

**6. Biological soil crust recovery**

- a. Monitoring accomplished in FY 2001.  
Development of the monitoring protocol and crust species identification were the primary activities in FY 2001.
- b. Monitoring results.  
No results are available to report.
- c. Monitoring program revisions.  
None.
- d. Monitoring scheduled for implementation in FY 2002  
Establish a site in each pasture on an appropriate range site and at least 30 non-use sites.
- e. Estimated costs of implementation.  
 $10 \text{ hrs/site} \times \$40/\text{hr} \times 80 \text{ sites} = \$32,000$

**B. Monitoring Recreation Management Actions**

**1. Limits of Acceptable Change (physical component)**

- a. Monitoring accomplished in FY 2001.
- b. Monitoring results.
- c. Monitoring program revisions.
- d. Monitoring scheduled for implementation in FY 2002
- e. Estimated costs of implementation.

**2. Limits of Acceptable Change (social component)**

- a. Monitoring accomplished in FY 2001.  
Mailed 549 surveys (plus up to 2 follow up postcards if needed) to 2001 trip leaders; 103 in Segment 2, 446 in Segment 3
- b. Monitoring results.  
45% of all surveys were returned; 53% on Segment 2, 43% on Segment 3
- c. Monitoring program revisions.  
None
- d. Monitoring scheduled for implementation in FY 2002  
Continue to administer survey to 2002 trip leaders.
- e. Estimated costs of implementation.  
See LAC implementation costs

**3. Boating use data collection**

- a. Monitoring accomplished in FY 2001.

Boater registration forms collected by BLM employees at launch points and in river camps. Self-service registration stations in use at 9 locations.

- b. Monitoring results.
- c. Monitoring program revisions.
- d. Monitoring scheduled for implementation in FY 2002
- e. Estimated costs of implementation.

## **C. Monitoring Hydrology**

### **1. Watershed improvement activity tracking**

Nothing scheduled for FY 2001 and FY 2002.

### **2. Water temperature**

- a. Monitoring accomplished in FY 2001.

One new water temperature monitoring station was installed in early June. Installing water temperature monitoring stations is difficult along the BLM portions of the Lower River for three reasons. First, the locations where BLM owns land is characterized by steep cliffs of fairly mobile cobble bars. Second, the characterization of the WSA prohibits the installation of any permanent or visible structures such as would hold a water temperature gage during high flows. Finally, access to portions of the river which lack water temperature data is extremely limited by topography. Temperature gages are installed via an annual float trip, using equipment normally associated with rock climbing.

- b. Monitoring results.

The water temperature station is in a remote location and will be retrieved next June.

- c. Monitoring program revisions.

None.

- d. Monitoring scheduled for implementation in FY 2002

Two new water temperature monitoring stations to install.

- e. Estimated costs of implementation.

2 installations @ \$150/unit + 3 maintenance @ \$500/unit = \$1800

### **3. Surveying monitoring cross sections**

- a. Monitoring accomplished in FY 2001.

None scheduled.

- b. Monitoring results.

None.

- c. Monitoring program revisions.

None.

- d. Monitoring scheduled for implementation in FY 2002

Re-measure six reference reaches with three cross sections per reach on the South Fork river segment 10.

- e. Estimated costs of implementation.

3 people x 15 days x 8 hrs/day x \$40/hr = \$14,400

## **D. Monitoring Agricultural Actions**



### **1. Implementation of instream conversion**

- a. Monitoring accomplished in FY 2001.  
None of the water rights associated with agricultural fields covered by the plan were converted to instream use.
- b. Monitoring results.  
None.
- c. Monitoring program revisions.  
None.
- d. Monitoring scheduled for implementation in FY 2002.  
Water rights associated with the 70 acre field at Clarno will be leased instream.
- e. Estimated costs of implementation.  
12 hours @ \$40/hr = \$480.

### **2. Seeding success (agriculture lands)**

- a. Monitoring accomplished in FY 2001.  
Pictures were taken from the perimeter of the converted field. Because the field was irrigated, the success was obvious. More detailed survivorship studies will be completed in FY 2005.
- b. Monitoring results.  
The seeding was a success.
- c. Monitoring program revisions.  
None.
- d. Monitoring scheduled for implementation in FY 2002.  
Follow-up pictures of the field will be taken.
- e. Estimated costs of implementation.  
8 hours @ \$40/hr = \$320

## **E. Monitoring Fish and Aquatic Habitat**

### **1. Anadromous fish spawning**

- a. Monitoring accomplished in FY 2001.
- b. Monitoring results.
- c. Monitoring program revisions.
- d. Monitoring scheduled for implementation in FY 2002
- e. Estimated costs of implementation.

### **2. Spawning habitat inventory**

- a. Monitoring accomplished in FY 2001.
- b. Monitoring results.
- c. Monitoring program revisions.
- d. Monitoring scheduled for implementation in FY 2002
- e. Estimated costs of implementation.

## **F. Other Monitoring**

### **1. Extent and density of noxious weed infestations**

- a. Monitoring accomplished in FY 2001.  
Monitored 240 acres of treatment. In cooperation with the Sherman, Gilliam and Grant counties, approximately 25 river miles of public and 35 river miles of private land were inventoried for new infestation sites.
- b. Monitoring results.  
No results are available for reporting.
- c. Monitoring program revisions.  
None.
- d. Monitoring scheduled for implementation in FY 2002  
Treatment areas = 200 acres.  
Inventories = 50 river miles public and private lands.
- e. Estimated costs of implementation.  
10 days x 8 hrs/day x \$40/hr =\$3,200

**2. Willow study**

Nothing scheduled for FY 2001 or FY 2002.

## Appendix A: FY 2001 (October 1, 2000 - 30 September, 2001) Monitoring on Grazing Allotments.

<u>Allotment</u>	<u>Number</u>	<u>Date</u>	<u>Results</u>
<b>Segment 1</b>			
Emigrant Canyon	2617	20 September	Upland monitoring. No unauthorized use.
Philippi	2604	28 June	Upland monitoring. No unauthorized use.
Hartung	2648	20 September	Upland monitoring. No unauthorized use.
Morehouse and Elliot	2594	7 August	No unauthorized use.
Hoag	2555	7 August	No unauthorized use.
J Bar S	2562	7 August	No unauthorized use.
Big Sky	2513		
Persimmon Woods	2540		
V.O. West	2637		
Morris	2595	17 July	Upland monitoring. No unauthorized use.
Baseline	2560		
Hay Creek	2598	11 October	Unauthorized use in North pasture.
		14 August	Upland monitoring. No unauthorized use.
		26 September	No unauthorized use.
Smith Point	2520	6 August	Unauthorized use along river.
J.T. Murtha	2597	11 October	No unauthorized use.
		24 April	No unauthorized use.
		23 July	Upland monitoring. No unauthorized use.
		14 August	No unauthorized use.
<b>Segment 2</b>			
J.T. Murtha	2597	3 May	Unauthorized use along river.
		10 May	Unauthorized use along river.
		27 May	No unauthorized use.
		8 June	Unauthorized use along river.
		27 June	No unauthorized use.
		23 July	Upland monitoring. No unauthorized use.
		31 July	Upland monitoring. No unauthorized use.
		14 August	Riparian monitoring. No unauthorized use.
George Weedman	2636	3 May	No unauthorized use.
		10 May	No unauthorized use.
		27 May	No unauthorized use.
		8 June	No unauthorized use.
		26 June	No unauthorized use.
Willow Spring	2553	3 May	No unauthorized use.
		10 May	No unauthorized use.
		27 May	No unauthorized use.
		8 June	No unauthorized use.
		13 June	Upland monitoring. No unauthorized use.
		26 June	No unauthorized use.
Miller	2591	2 May	No unauthorized use.
		9 May	No unauthorized use.
		27 May	No unauthorized use.
		7 June	No unauthorized use.
		13 June	Upland monitoring. No unauthorized use.
		26 June	No unauthorized use.
Belshe	2509	2 May	No unauthorized use.

Laffoon and Carlson	2572	9 May	No unauthorized use.
		27 May	No unauthorized use.
		7 June	Upland monitoring. No unauthorized use.
		25 June	No unauthorized use.
		26 June	Upland monitoring. No unauthorized use.
James Brown	2522	2 May	Unauthorized use in Jackknife pasture.
		9 May	No unauthorized use.
		27 May	No unauthorized use.
		6 June	No unauthorized use.
		25 June	No unauthorized use.
Horseshoe Bend	2521	2 May	Unauthorized use in South pasture.
		9 May	No unauthorized use.
		27 May	No unauthorized use.
		5 June	No unauthorized use.
		25 June	No unauthorized use.
Decker	2538	2 May	No unauthorized use.
		9 May	No unauthorized use.
		26 May	No unauthorized use.
		5 June	No unauthorized use.
		24 June	No unauthorized use.
Sid Seale	2619	25 June	Upland monitoring. No unauthorized use.
		1 May	Unauthorized use in Chisholm pasture.
		9 May	No unauthorized use.
		26 May	No unauthorized use.
		5 June	No unauthorized use.
Rattray	2608	22 June	Upland monitoring. No unauthorized use.
		24 June	No unauthorized use.
		19 September	Riparian monitoring. No unauthorized use.
		2 May	No unauthorized use.
		9 May	Unauthorized use in Pearson Canyon and Below Ferry pastures.
Tatum	2629	27 May	No unauthorized use.
		5 June	Upland monitoring. No unauthorized use.
		14 June	Upland monitoring. No unauthorized use.
		25 June	No unauthorized use.
		19 July	Upland monitoring. No unauthorized use.
Pine Creek	2518	6 September	Riparian monitoring. No unauthorized use.
		6 April	No unauthorized use.
		1 May	Unauthorized use in Pine Creek pasture.
		8 May	Unauthorized use in Pine Creek pasture.
		26 May	No unauthorized use.
		4 June	No unauthorized use.
		24 June	No unauthorized use.
		10 July	Unauthorized use on riverbanks in Devils and Pine Hollow pastures.
		16 July	Upland monitoring. No unauthorized use.
		1 May	No unauthorized use.
		8 May	No unauthorized use.
		26 May	No unauthorized use.
		4 June	Upland monitoring. No unauthorized use.
		24 June	No unauthorized use.
		13 July	Upland monitoring. No unauthorized use.
		1 May	No unauthorized use.
		8 May	No unauthorized use.
		26 May	No unauthorized use.
		23 June	No unauthorized use.
		21 August	Upland monitoring. No unauthorized use.

Steiwer	2623	30 April	No unauthorized use.
		8 May	No unauthorized use.
		26 May	No unauthorized use.
		23 June	No unauthorized use.
		10 July	Upland monitoring. No unauthorized use.
Catherine Maurer	2584	6 October	Unauthorized use in Twin Buttes pasture.
		7 November	Unauthorized use in Twin Buttes pasture.
		17 November	No unauthorized use.
		30 November	No unauthorized use.
		10 April	Unauthorized use in Lakes pasture.
		20 April	No unauthorized use.
		30 April	No unauthorized use.
		7 May	No unauthorized use.
		30 May	Upland monitoring. Unauthorized use in Lakes pasture.
		21 June	Upland monitoring. No unauthorized use.
		3 July	Upland monitoring. No unauthorized use.
		1 August	Unauthorized use in Lakes and River pastures.
		7 August	Inspected Willow and Kenny Cofelt springs. No unauthorized use.
		20 August	Unauthorized use in River pasture.
Clarno Homestead	2614	5 April	No unauthorized use.
		30 April	No unauthorized use.
		11 July	No unauthorized use.
		17 September	Unauthorized use on ag field.

### Segment 3

Murray Howard	2556	April 28	No unauthorized use
		May 5	No unauthorized use
		May 23	No unauthorized use
		June 2	No unauthorized use
		June 9	No unauthorized use
		June 29	No unauthorized use
		July 7	No unauthorized use
		July 28	No unauthorized use
Circle S	2544	April 28	No unauthorized use
		May 5	No unauthorized use
		May 23	No unauthorized use
		June 2	No unauthorized use
		June 9	No unauthorized use
		June 29	No unauthorized use
		July 28	No unauthorized use
Zack Keys	2569	April 28	No unauthorized use
		May 5	No unauthorized use
		May 23	No unauthorized use
		June 2	No unauthorized use
		June 9	No unauthorized use
		June 29	No unauthorized use
		July 28	No unauthorized use
Zack Keys	2570	April 28	No unauthorized use

Dead Dog Canyon	2537	May 5	No unauthorized use
		May 23	No unauthorized use
		June 2	No unauthorized use
		June 9	No unauthorized use
		June 29	No unauthorized use
		July 28	No unauthorized use
T. Cole	2532	April 28	No unauthorized use
		May 5	No unauthorized use
		May 23	No unauthorized use
		June 2	No unauthorized use
		June 10	No unauthorized use
		June 30	No unauthorized use
		July 28	No unauthorized use
Sutton Mountain	2533	April 29	No unauthorized use
		May 5	No unauthorized use
		May 24	No unauthorized use
		June 3	No unauthorized use
		June 30	No unauthorized use
		July 13	No unauthorized use
		July 24	No unauthorized use
		July 29	No unauthorized use
		Sept. 7	No unauthorized use
Byrds Point	2577	April 29	No unauthorized use
		May 5	No unauthorized use
		May 24	No unauthorized use
		June 3	No unauthorized use
		June 30	No unauthorized use
		July 13	No unauthorized use
		July 17	No unauthorized use
		July 20	No unauthorized use
		July 24	No unauthorized use
		July 29	No unauthorized use
		Aug. 8	No unauthorized use
Burnt Ranch	2624	Sept. 7	No unauthorized use
		April 29	No unauthorized use
		May 6	No unauthorized use
		May 12	No unauthorized use
		May 24	No unauthorized use
		June 3	No unauthorized use
		June 30	No unauthorized use
		July 14	No unauthorized use
		July 17	No unauthorized use

Cherry Creek	2545	July 20	No unauthorized use
		July 24	No unauthorized use
		July 29	No unauthorized use
		Aug. 7	No unauthorized use
Amine Peak	2633	April 29	No unauthorized use
		May 6	No unauthorized use
		May 12	No unauthorized use
		May 24	No unauthorized use
		June 3	No unauthorized use
		July 1	No unauthorized use
		July 7	No unauthorized use
		July 14	No unauthorized use
		July 20	No unauthorized use
		July 24	No unauthorized use
		July 29	No unauthorized use
Big Muddy	2512	April 29	No unauthorized use
		May 6	No unauthorized use
		May 12	No unauthorized use
		May 24	No unauthorized use
		June 3	Unauthorized use
		July 1	Unauthorized use
		July 24	Unauthorized use
		July 29	Unauthorized use
Hayfield	2535	April 30	No unauthorized use
		May 6	No unauthorized use
		May 13	No unauthorized use
		May 24	No unauthorized use
		June 4	No unauthorized use
		July 1	No unauthorized use
		July 7	No unauthorized use
		July 20	No unauthorized use
Dry Knob	2656	July 30	No unauthorized use
		April 30	No unauthorized use
		May 6	No unauthorized use
		May 13	No unauthorized use
		May 24	No unauthorized use
		June 4	No unauthorized use
		July 1	No unauthorized use
		July 24	No unauthorized use
Spud	2588	July 30	No unauthorized use
		April 30	No unauthorized use
		May 6	No unauthorized use
		May 13	No unauthorized use
		May 25	No unauthorized use
		June 4	No unauthorized use
		July 1	No unauthorized use
		July 30	No unauthorized use

Tripp	2630	June 4	No unauthorized use
		July 1	No unauthorized use
		July 30	No unauthorized use
Corral Canyon	2587	April 30	No unauthorized use
		May 6	No unauthorized use
		May 13	No unauthorized use
		May 25	No unauthorized use
		June 4	No unauthorized use
		July 1	No unauthorized use
		April 30	No unauthorized use
		May 6	No unauthorized use
		May 13	No unauthorized use
		May 25	No unauthorized use
		July 1	No unauthorized use

### Segment 10

Dayville	4038		
Murderers Creek	4020	11 March	No unauthorized use.
Big Flats	4186		
Black Canyon	4119		
Smokey Creek	4124		
Big Baldy	4052	25 October	Observed wild horses at Ellingson Mill. No unauthorized use.
Rockpile	4103	13 February	No unauthorized use.
		23 February	Wild horse monitoring, no horses found.
		11 May	Spawning survey. No unauthorized use.
		12 June	Stubble height monitoring. No unauthorized use.
		19 June	Spring development design. No unauthorized use.
		1 August	Unauthorized use on Indian Creek.
		19 September	No unauthorized use.
		25 September	Riparian monitoring. Unauthorized use.
		25 October	Riparian monitoring. No unauthorized use.
		5 January	Inspected Doghouse Riparian Fence Project. No unauthorized use.
		27 March	GPS location of land ownership boundary. No unauthorized use.
		17 May	No unauthorized use, Davis Creek pasture.
		18 May	No unauthorized use, Flats pasture.
		29 May	Repair river crossing at Cougar Gulch. No unauthorized use.
		12 June	No unauthorized use.
		19 June	Spring development design. No unauthorized use.
		26 June	Unauthorized use in Martin Creek pasture.
		23 July	Riparian monitoring, Davis Creek pasture. No unauthorized use.
		26 July	Riparian monitoring, Frazier Creek and Martin Creek pastures. No unauthorized use.
		15 August	Riparian monitoring, Frazier Creek and Martin Creek pastures. No unauthorized use.
		28 August	Repair river crossing above Davis Creek enclosure. No unauthorized use.



**Segment 11**

South Fork	4104	8 May	Riparian monitoring. No unauthorized use.
Soda Creek	4044		
Blackhorse Draw	4155		
Sheep Creek Butte	4067		
Izee	4106		
Big Flats	4186		
Morgan Creek	4154		